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Mapping Exposed Silicate Rock Types and Exposed Ferric and Ferrous Compounds from a Space Platform

Quarterly Report for Period 8 September - 8 December

EREP Investigation 444M
NASA Contract NAS9-13317

Prepared by

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The following report serves as the third quarterly report for this contract, which is entitled "Mapping Exposed Silicate Rock Types and Exposed Ferric and Ferrous Compounds from a Space Platform". The financial reports have been submitted monthly under separate cover.

Since SL-4 data are to be processed under this contract, progress has been slow on this contract. The SRAGAL computer program for converting laboratory data into a form useful for feature selection and interpretation of ratioed Skylab data has been completed, but not debugged. The plan for SRAGAL is to generate ratio codes for 235 laboratory spectra of soils, minerals, and rocks over the 0.4 to 2.5 μm wavelength region for the twelve S-192 channels in that region. An attempt will be made to choose one or more subsets of ratios that will be adequate for most geological remote sensing experiments. This will be done on the basis of the ratio codes calculated by SRAGAL. The ratio codes and some of their implications are planned to be the subject of a paper to be presented at the next Remote Sensing Symposium in April, 1974 at Ann Arbor, Michigan.

Other work on this contract has been delayed.

Respectfully submitted,

Robert K. Vincent

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Principal Investigator

Approved by: F. J. Thomson for

Richard R. Legault
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RKV:RRL:njm